

Appln No. 10/724,644
Amdt date April 21, 2006
Reply to Office action of January 23, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A plasma display panel, comprising:

a first substrate;

a second substrate provided at a predetermined distance from the first substrate and forming a vacuum assembly with the first substrate;

barrier ribs forming pixels between the first substrate and the second substrate such that subpixels forming one grouping of pixels are arranged in a triangular configuration;

a plurality of address electrodes formed on a surface of the first substrate facing the second substrate, and formed along a first direction of the first substrate;

a plurality of discharge sustain electrodes formed on a surface of the second substrate facing the first substrate, and formed along a first direction of the second substrate; and

a phosphor layer and discharge gas provided between the first substrate and the second substrate,

wherein if a length of a line passing through a center of the subpixels and interconnecting two opposing corners of the subpixels is (c), and if a length of a line extending between two adjacent corners and parallel with the line passing through the center of the subpixels and interconnecting two opposing

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corners of the subpixels is (b), the subpixels are formed such that a (b) to (c) ratio is between 1:1.5 and 1:5.

2. (original) The plasma display panel of claim 1, wherein the (b) to (c) ratio is between 1:2.5 and 1:3.5.

3. (original) The plasma display panel of claim 1, wherein the subpixels are formed as hexagons.

4. (original) The plasma display panel of claim 1, wherein each of the discharge sustain electrodes includes a bus electrode formed along the first direction of the second substrate, and transparent electrode sections formed extending from the bus electrodes to be positioned within areas corresponding to the subpixels.

5. (original) The plasma display panel of claim 4, wherein the bus electrodes are formed corresponding to a shape of the barrier ribs.

6. (original) The plasma display panel of claim 5, wherein the bus electrodes are formed in a zigzag configuration along a direction of the second substrate.

7. (original) The plasma display panel of claim 1, wherein the address electrodes include first area sections formed at a predetermined width and within an area covered by the barrier ribs, and second area sections formed at a predetermined width

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greater than the width of the first area sections and within areas encompassed by the subpixels.

8. (original) The plasma display panel of claim 7, wherein the second area sections are formed in a shape similar to the shape of the subpixels.

9. (original) The plasma display panel of claim 8, wherein the second area sections are formed in a hexagonal configuration.

10. (original) The plasma display panel of claim 1, wherein the subpixels are symmetrical about a straight line passing through a center of the subpixels.

11. (original) The plasma display panel of claim 1, wherein the line extending between two adjacent corners of the subpixels is parallel to the line passing through a center of the subpixels and interconnecting two opposing corners of the subpixels.

12. (currently amended) A plasma display panel, comprising:

a first substrate and a second substrate, opposing one another with a predetermined gap therebetween to form a vacuum assembly;

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barrier ribs forming pixels between the first substrate and the second substrate such that subpixels forming one grouping of pixels are arranged in a triangular configuration;

a plurality of address electrodes formed on a surface of the first substrate facing the second substrate, and formed along a first direction of the first substrate;

a plurality of discharge sustain electrodes formed on a surface of the second substrate facing the first substrate, and formed along a first direction of the second substrate;

a phosphor layer formed between the first substrate and the second substrate; and

discharge gas filled in discharge cells defined by the barrier ribs forming the subpixels,

wherein if a length of a line passing through a center of the discharge cells and interconnecting two opposing corners of the barrier ribs defining each of the discharge cells is (c), and if a length of a line extending between two adjacent corners of the barrier ribs defining each of the discharge cells and parallel with the line passing through the center of the discharge cells and interconnecting two opposing corners of the barrier ribs defining each of the discharge cells is (b), the barrier ribs defining each of the discharge cells are formed such that a (b) to (c) ratio is between 1:1.5 and 1:5.

13. (original) The plasma display panel of claim 12, wherein the (b) to (c) ratio is between 1:2.5 and 1:3.5.

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14. (original) The plasma display panel of claim 12, wherein the barrier ribs defining the discharge cells are formed as hexagons.

15. (original) The plasma display panel of claim 12, wherein each of the discharge sustain electrodes includes a bus electrode formed along the first direction of the second substrate, and transparent electrode sections formed extending from the bus electrodes to be positioned within areas corresponding to the subpixels.

16. (original) The plasma display panel of claim 15, wherein the bus electrodes are formed corresponding to a shape of the barrier ribs.

17. (original) The plasma display panel of claim 15, wherein the bus electrodes are formed in a zigzag configuration along the first direction of the second substrate.

18. (original) The plasma display panel of claim 12, wherein the address electrodes include first area sections formed at a predetermined width and within an area covered by the barrier ribs, and second area sections formed at a predetermined width greater than the width of the first area sections and within areas encompassed by the discharge cells.

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19. (original) The plasma display panel of claim 18, wherein the second area sections are formed in a shape similar to the shape of the subpixels.

20. (original) The plasma display panel of claim 19, wherein the second area sections are formed in a hexagonal configuration.

21. (original) The plasma display panel of claim 12, wherein the subpixels are symmetrical about a straight line passing through a center of the subpixels.

22. (original) The plasma display panel of claim 12, wherein the line extending between two adjacent corners of the barrier ribs defining each of the discharge cells is parallel to the line passing through the center of the discharge cells and interconnecting two opposing corners of the barrier ribs defining each of the discharge cells.